

Release notes for ENDF/B Development n-061_Pm_147
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=6149, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=6149, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      229 TO      278
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=6149, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=6149, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      229
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6149, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      280
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      672
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      735
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      797
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      813
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 824

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 831

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 847

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 859

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 33 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 33
SECTION 3/ 33 NOT IN DIRECTORY RECORD NUMBER 868

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 877

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 893

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 907

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 54 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 54 | RECORD NUMBER | 921 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 55 | RECORD NUMBER | 934 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 56 | RECORD NUMBER | 947 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT= 91 | RECORD NUMBER | 959 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT=102 | RECORD NUMBER | 971 |
| SECTION 3/102 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT=103 | RECORD NUMBER | 991 |
| SECTION 3/103 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT=104 | RECORD NUMBER | 1006 |
| SECTION 3/104 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=105 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 3, MT=105 | RECORD NUMBER | 1019 |
| SECTION 3/105 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=106 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 3, MT=106 | |
| | SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1032 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 3, MT=107 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 3, MT=107 | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1043 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|--|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 2 | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 1060 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 16 | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 1224 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 17 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 17 | |
| | SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 1235 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 22 | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 1246 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 28 | |
| | SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 1257 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 32 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 32 | |
| | SECTION 4/ 32 NOT IN DIRECTORY | RECORD NUMBER 1268 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 33 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 33 | RECORD NUMBER | 1279 |
| SECTION 4/ 33 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 51 | RECORD NUMBER | 1290 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 52 | RECORD NUMBER | 1318 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 53 | RECORD NUMBER | 1346 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 54 | RECORD NUMBER | 1374 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 55 | RECORD NUMBER | 1402 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 56 | RECORD NUMBER | 1430 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 4, MT= 91 | RECORD NUMBER | 1458 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 16 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 16 | RECORD NUMBER | 1487 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 17 | RECORD NUMBER | 1565 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 22 | RECORD NUMBER | 1607 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 28 | RECORD NUMBER | 1856 |
| SECTION 5/ 28 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 32 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 32 | RECORD NUMBER | 2000 |
| SECTION 5/ 32 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 33 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 33 | RECORD NUMBER | 2079 |
| SECTION 5/ 33 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF= 5, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF= 5, MT= 91 | RECORD NUMBER | 2150 |
| SECTION 5/ 91 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF=33, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=6149, MF=33, MT= 2 | RECORD NUMBER | 2304 |
| SECTION 33/ 2 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF=33, MT= 4 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY

RECORD NUMBER 2394

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF=33, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY

RECORD NUMBER 2457

49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=6149, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=6149, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 2471

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 2.0 and S = 2.0 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=102.0 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.34%

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Pm147): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (n + Pm147): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 ((z,n)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 2 ($n[\text{multiplicity:}'2'] + \text{Pm146}$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 ($\text{Pm148} + \text{gamma}$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 3 ($\text{Pm148} + \text{gamma}$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.

reaction label 8: $n[\text{multiplicity:}'2'] + \text{Pm146}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7722317.090194702 eV vs -7.6741e6 eV!

2. Calculated and tabulated Q values disagree.

reaction label 9: $n[\text{multiplicity:}'3'] + \text{Pm145}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13979752.92886353 eV vs -1.39222e7 eV!

3. Calculated and tabulated Q values disagree.

reaction label 10: $n + \text{H1} + \text{Nd146}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5468800.4243927 eV vs -5410640. eV!

4. Calculated and tabulated Q values disagree.

reaction label 11: $n + \text{H2} + \text{Nd145}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10809468.2427063 eV vs -1.06696e7 eV!

5. Calculated and tabulated Q values disagree.

reaction label 12: $n + \text{H3} + \text{Nd144}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10307521.32991028 eV vs -1.02446e7 eV!

6. Calculated and tabulated Q values disagree.

reaction label 13: $\text{Pm148} + \text{gamma}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5832335.748565674 eV vs 5901390. eV!

7. Calculated and tabulated Q values disagree.

reaction label 14: $n + \text{He4} + \text{Pr143}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1537703.040252686 eV vs 1603090. eV!

8. Calculated and tabulated Q values disagree.
reaction label 15: H1 + Nd147-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -176597.3471221924 eV vs -113541. eV!

9. Calculated and tabulated Q values disagree.
reaction label 16: H2 + Nd146-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3244234.323455811 eV vs -3100530. eV!

10. Calculated and tabulated Q values disagree.
reaction label 17: H3 + Nd145-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4552235.302093506 eV vs -4484460. eV!

11. Calculated and tabulated Q values disagree.
reaction label 18: He3 + Pr145-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6338939.12890625 eV vs -6270830. eV!

12. Calculated and tabulated Q values disagree.
reaction label 19: He4 + Pr144-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7291166.13420105 eV vs 7.3642e6 eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (0): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPT/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (6): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided